CIVIL QUALITY
CONSULTANTS & ENGINEERS
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Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No: CQCE/BBMP/NMK/17/2021-22 Date 10.11.2021

GRADATION FOR GSB (Grading V)

Client : : Assistant Executive Engineer, Yeshwnthpura Sub Division, BBMP, Bangalore.
Agency: : Sri. N M Krishnamurthy, Contractor, Bangalore.
Name of work: : Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-17 JP Park, BBMP, Bangalore

BIS Code: IS 2386 Part (1):1963
IS 2720 part (5):1985

Date of Testing : 08.11.2021 to 10.11.2021

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	881	881	6.78	93.22	80-100
26.5	2782	3663	28.18	71.82	55-90
9.5	2991	6654	51.18	48.82	35-65
4.75	2112	8766	67.43	32.57	25-50
2.36	1990	10756	82.74	17.26	10-20
0.85	1253	12009	92.38	7.62	2-10
0.425	400	12409	95.45	4.55	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	22.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

Note:
1. The Material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NMK/17/2021-22 Date : 22.11.2021

GRADATION FOR WMM

Client : **Assistant Executive Engineer,** Yeshwnthpura Sub Division, BBMP, Bangalore.
Agency : **Sri. N M Krishnamurthy,** Contractor, Bangalore.
Name of Work : Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-17 JP Park, BBMP, Bangalore
IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing 22.11.2021
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	308	308	3.1	96.9	95-100
22.4	2415	2723	27.2	72.8	60-80
11.2	2136	4859	48.6	51.4	40-60
4.75	1652	6511	65.1	34.9	25-40
2.36	1236	7747	77.5	22.5	15-30
0.600	816	8563	85.6	14.4	8-22
0.075	1117	9680	96.8	3.2	0-5

Note:
1. The material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NMK/17/2021-22 Date: 22.11.2021

Aggregate Impact Value

Client	: **Assistant Executive Engineer,** Yeshwnthpura Sub Division, BBMP, Bangalore.
Agency	: **Sri. N M Krishnamurthy,** Contractor, Bangalore.
Name of the Work	: Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-17 JP Park, BBMP, Bangalore
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	22.11.2021

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	382	384	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	87	85	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	295	299	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.77	22.14	22.46

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

Note:

1. The material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NMK/17/2021-22 Date : 22.11.2021

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: **Assistant Executive Engineer,** Yeshwnthpura Sub Division, BBMP, Bangalore.
Agency	: **Sri. N M Krishnamurthy,** Contractor, Bangalore.
Name of Work	: Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-17 JP Park, BBMP, Bangalore
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	22.11.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.2	13.6	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	10.5	12.1	
	Combined Flakiness & Elongation index	21.7	25.7	

Note:
1. The material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NMK/17/2021-22

Date 24.11.2021

ATTERBERG LIMITS TEST FOR WMM

Client : Assistant Executive Engineer, Yeshwnthpura Sub Division, BBMP, Bangalore.

Agency : Sri. N M Krishnamurthy, Contractor, Bangalore.

Name of Work : Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-17 JP Park, BBMP, Bangalore

IS Code: IS 2720(Part 5):1985

Date of Testing : 22.11.2021 to 24.11.2021

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	19.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

1. The material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NMK/17/2021-22

Date: 02.12.2021

TEST REPORT

Client	:	: **Assistant Executive Engineer,** Yeshwnthpura Sub Division, BBMP, Bangalore.
Agency	:	: **Sri. N M Krishnamurthy,** Contractor, Bangalore.
Name of the work	:	: Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-17 JP Park, BBMP, Bangalore
IS Code	:	IS 73:2013, IS 1203:1978(RA 2008), IS 1205:1978(RA 2009), IS 1208:1978(RA 2009), IS 1209:1978(RA 2009)
Source	:	VG 10
Date of testing	:	02.12.2021

The results of the tests conducted on the bitumen sample using for Semi Dense Bituminous Concrete

Sl. No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	85	Min 80
2	Softening point, ^{0}C	44	Min. 40
3	Ductility at 27^{0}C, cm	100 >	Min. 75
4	Flash Point, ^{0}C	256	Min. 220

Note:

1. The Material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NMK/17/2021-22 02.12.2021

Aggregate Impact Value

Client	: Assistant Executive Engineer, Yeshwnthpura Sub Division, BBMP, Bangalore.
Agency	: Sri. N M Krishnamurthy, Contractor, Bangalore.
Name of the Work	: Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-17 JP Park, BBMP,
IS Code	IS 2386 (Part 1):1963(RA 2011)
Type of Mix	Semi Dense Bituminous Concrete
Date of Testing	02.12.2021

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	381	383	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	87	89	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	294	294	
4	Aggregate Impact value = percent fines	22.83	23.24	
	100* (W_2/W_1)%			23.04

Comments:

→ Maximum allowable Aggregate Impact value for Semi Dense Bituminous Concrete is 27%

Note:

1. The Material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NMK/17/2021-22 Date: 02.12.2021

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: Assistant Executive Engineer, Yeshwnthpura Sub Division, BBMP, Bangalore.
Agency	: Sri. N M Krishnamurthy, Contractor, Bangalore.
Name of Work	: Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-17 JP Park, BBMP, Bangalore
IS Code	IS 2386 (Part 1):1963(RA 2011)
Type of Mix	Semi Dense Bituminous Concrete
Date of Testing	02.12.2021

Sl no	Test	1	2	Requirements as per MORTH 4th edition table no 500.14
1	Flakiness Index	12.2	10.5	Combined Flakiness & Elongation index Max 30%
2	Elongation Index	11.7	13.9	
	Combined Flakiness & Elongation index	23.9	24.4	

Note:

1. The Material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NMK/17/2021-22

Date : 04.12.2021

Specific Gravity And Water Absorption Test

Client	: Assistant Executive Engineer, Yeshwnthpura Sub Division, BBMP, Bangalore.
Agency	: Sri. N M Krishnamurthy, Contractor, Bangalore.
Name of the Work	: Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-17 JP Park, BBMP, Bangalore
Type of Mix	Semi Dense Bituminous Concrete
IS code	IS 2386 (Part 3):1963(RA 2011)
Date of Testing	02.12.2021 to 04.12.2021

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2021	2023	2025	
2	Weight of basket suspended in water	W_2 g	755	755	755	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1266	1268	1270	
4	Weight of saturated surface dry aggregate in air	W_3 g	2023	2025	2027	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	757	757	757	
6	Weight of oven dried aggregate	W_4 g	2011	2013	2014	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.657	2.659	2.661	2.659
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.699	2.702	2.707	2.703
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.60%	0.60%	0.65%	0.61%

Comments:

→ Maximum allowable Aggregate Water absorption value for Semi Dense Bituminous Concrete is 2.0%

Note:

1. The Material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NMK/17/2021-22 Date : 02.12.2021

Aggregate Gradation Test

IS : 2386 Part I

Client	: Assistant Executive Engineer, Yeshwnthpura Sub Division, BBMP,
Agency	: Sri. N M Krishnamurthy, Contractor, Bangalore.
Name of theWork	: Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-17 JP Park, BBMP, Bangalore
Type of Mix	Semi Dense Bituminous Concrete
Date of Testing	02.12.2021

Total Weight of Sample: 5270 gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	JOBMIX Gradation as per MORTH	Remarks
19	0	0	0	100	100	Gradation satisfies Semi Dense Bituminous concrete Grade-I specification as per MORTH
13.2	365	6.93	6.93	93.07	90-100	
9.5	418	7.93	14.86	85.14	70-90	
4.75	2265	42.98	57.84	42.16	35-51	
2.36	865	16.41	74.25	25.75	24-39	
1.18	477	9.05	83.30	16.70	15-30	
0.3	258	4.90	88.20	11.80	9-19	
0.075	215	4.08	92.28	7.72	3-8	

Total Weight of Sample: 5250 gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	JOBMIX Gradation as per MORTH	Remarks
19	0	0	0	100	100	Gradation satisfies Semi Dense Bituminous concrete Grade-I specification as per MORTH
13.2	411	7.83	7.83	92.17	90-100	
9.5	457	8.70	16.53	83.47	70-90	
4.75	2265	43.14	59.68	40.32	35-51	
2.36	618	11.77	71.45	28.55	24-39	
1.18	481	9.16	80.61	19.39	15-30	
0.3	387	7.37	87.98	12.02	9-19	
0.075	287	5.47	93.45	6.55	3-8	

Note:

1. The Material is Satisfied as per the Requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NMK/17/2021-22

Date: 06.12.2021

TEST REPORT ON STABILITY OF MIX

Client	:	: **Assistant Executive Engineer,** Yeshwnthpura Sub Division, BBMP, Bangalore.
Agency	:	: **Sri. N M Krishnamurthy,** Contractor, Bangalore.
Name of the Work	:	: Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-17 JP Park, BBMP, Bangalore
Type of Mix	:	Semi Dense Bituminous Concrete
Date of Testing	:	06.12.2021

The results of the tests conducted on the Semi Dense bituminous concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.78	10.21	9 Kn (min)
2	Marshal flow, mm	3.42	2.89	2 – 4
3	Percent air voids in Mineral Aggregate	13.56	14.52	13 – 15
4	Voids in Compacted Mix	3.47	4.49	3 – 6
5	Percent Voids filled with Bitumen	70.68	71.27	65 - 75
6	Density, g/cc	2.28	2.27	--

Note:

1. The Material is Satisfied as per the Requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NMK/17/2021-22

Date : 06.12.2021

BITUMEN CONTENT AND GRADATION DETERMINATION OF SEMI DENSE BITUMINOUS CONCRETE MIX

AASHTO T 164 & AASHTO T 30

CLIENT	: Assistant Executive Engineer, Yeshwnthpura Sub Division, BBMP, Bangalore.
AGENCY	: Sri. N M Krishnamurthy, Contractor, Bangalore.
NAME OF THE WORK	: Removal of Debries,Berm Cuttings,Filling of Road Cutting and other road Maintenance Works in Ward no-17 JP Park, BBMP, Bangalore
DATE OF TESTING	06.12.2021

BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	473.1	473.3
3. Weight of Asphalt and Mineral matter Extracted,	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	26.9	26.70
7. Bitumen content in %	5.38	5.34
8. Average	5.36	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Trail 1				JOBMIX
mm	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	Gradation
19	0	0	0	100	100
13.2	14	2.96	2.96	97.04	90-100
9.5	36	7.61	10.57	89.43	70-90
4.75	233	49.25	59.82	40.18	35-51
2.36	45	9.51	69.33	30.67	24-39
1.18	57	12.05	81.38	18.62	15-30
0.3	25	5.28	86.66	13.34	9-19
0.075	28	5.92	92.58	7.42	3-8

SIEVE SIZE	Trail 2				JOBMIX
mm	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	Gradation
19	0	0	0	100	100
13.2	12	2.54	2.54	97.46	90-100
9.5	28	5.60	5.60	94.40	70-90
4.75	240	48.00	53.60	46.40	35-51
2.36	54	10.80	64.40	35.60	24-39
1.18	35	7.00	71.40	28.60	15-30
0.3	73	14.60	86.00	14.00	9-19
0.075	32	6.40	92.40	7.60	3-8

Note:

1. The Material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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